

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Cancelled) A method of controlling frequency selection in a wireless communication system in response to radar-like interference signals, comprising
 - a) continuously or quasi-continuously monitoring and assessing one or more frequencies with respect to a radar-indicative characteristic of the radar-like interference signals;
 - b) allocating a quality parameter to each assessed frequency, the quality parameter indicating a probability that the frequency is occupied by a radar-like interference signal;
 - c) selecting one or more frequencies in dependence on the allocated quality parameters; and
 - d) further monitoring one or more frequencies with respect to radar-like interference signals; andwherein when quasi-continuously monitoring the one or more frequencies a duration of a single measurement interval is long compared to a time interval between two subsequent measurement intervals.

2. (Currently Amended) The method of claim ~~1~~23,
wherein the quality parameter can assume one of a plurality of pre-defined values, a first value indicating that a frequency is occupied, a second value indicating that a frequency is not occupied, and a third value indicating that a frequency might be occupied.

3. (Currently Amended) The method according to claim ~~123~~,
wherein the quality parameter can assume any value between a lower quality
border value and an upper quality border value.

4. (Currently Amended) The method according to claim ~~123~~,
wherein in ~~step-act c~~) only those frequencies are selected to which quality
parameters satisfying a threshold condition are allocated.

5. (Currently Amended) The method according to claim ~~123~~,
wherein at least ~~step-act a~~) is performed during a normal transmission mode.

6. (Currently Amended) The method according to claim ~~123~~,
wherein at least ~~step-act a~~) is performed prior to a normal transmission mode.

7. (Currently Amended) The method of claim ~~123~~,
wherein at least ~~step-act a~~) is performed by a separate monitoring device in
communication with at least one of an access point and a central controller (CC) of the
wireless communication system.

8. (Currently Amended) The method of claim ~~123~~,
further comprising communicating the allocated quality parameters to an access
point or a central controller of the same or a neighboring wireless communication system.

9. (Currently Amended) The method of claim ~~123~~,
wherein, if at least one of the radar-like interference signals and/or other
interference signals ~~are is~~ detected in ~~step-act d~~), ~~repeating steps-acts a) to c)~~ ~~are repeated~~.

10. (Currently Amended) The method to claim ~~123~~,
wherein during regular operation receive/transmit pauses are artificially created.

11. (Currently Amended) The method of claim ~~123~~,
wherein ~~step-act d~~) comprises periodically monitoring one or more of the selected
frequencies to assess an average quality thereof.

12. (Original) The method of claim 11,
further comprising transmitting on the one or more frequencies having the highest
average quality.

13. (Currently Amended) The method of claim 12,
wherein after a predefined period of time the method returns to ~~step-act a~~).

14. (Original) The method of claim 13,
wherein for a specific transmission frequency the predefined period of time is
selected in dependence on the quality parameter previously allocated to this transmission
frequency.

15. (Previously Presented) The method of claim 13,
wherein the predefined period of time is selected additionally in dependence on a
system traffic load or the transmission quality of the currently used transmission
frequency.

16. (Currently Amended) The method of claim ~~123~~, wherein prior to switching
from a first transmission frequency to a second transmission frequency, the second
transmission frequency is subjected to at least ~~steps-acts a~~) and b).

17. (Cancelled) A computer program product comprising program code executable by a processor for performing the steps of :

- a) continuously or quasi-continuously monitoring and assessing one or more frequencies with respect to a radar-indicative characteristic of radar-like interference signals;
- b) allocating a quality parameter to each assessed frequency, the quality parameter indicating a probability that the frequency is occupied by a radar-like interference signal;
- c) selecting one or more frequencies in dependence on the allocated quality parameters; and
- d) further monitoring one or more frequencies with respect to radar-like interference signals; and

wherein when quasi-continuously monitoring the one or more frequencies a duration of a single measurement interval is long compared to a time interval between two subsequent measurement intervals.

| 18. (Currently Amended) The computer program product of claim ~~47~~29, stored on a computer readable recording medium.

19. (Cancelled) A wireless communication system comprising:

- a) a first unit for continuously or quasi-continuously monitoring and assessing one or more frequencies with respect to a radar-indicative characteristic of radar-like interference signals;
- b) a second unit for allocating a quality parameter to each assessed frequency, the quality parameter indicating a probability that a frequency is occupied by a radar-like interference signal;

c) a third unit for selecting one or more frequencies in dependence on the allocated quality parameters, wherein the first unit is adapted to further monitor one or more frequencies with respect to radar-like interference signals; and

wherein when quasi-continuously monitoring the one or more frequencies a duration of a single measurement interval is long compared to a time interval between two subsequent measurement intervals.

20. (Currently Amended) The wireless communication system of claim 1930, comprising a monitoring device (MD) associated with or remote from at least one of an access point (AP) or a central controller (CC),

wherein the monitoring device (MD) includes at least the first unit for ~~continuously or quasi-continuously monitoring and assessing one or more frequencies with respect to the radar-like interference signals.~~

21. (Cancelled)

22. (Cancelled)

23. (New) A method of controlling frequency selection in a wireless communication system, the method comprising

a) assessing plural frequencies with respect to a radar interference signal;
b) allocating a quality parameter to each assessed frequency, the quality parameter indicating a probability that the frequency is occupied by the radar interference signal;

c) selecting one or more of the plural frequencies in dependence on the allocated quality parameters; and

d) further assessing the one or more of the plural frequencies selected in act c) with respect to transmission quality and selecting a frequency for use by the system.

24. (New) The method of claim 23, further comprising performing act 1) for a time period that corresponds to at least one typical radar pulse period.

25. (New) The method of claim 23, further comprising performing act 1) for a time period of substantially ten seconds.

26. (New) The method of claim 23, further comprising performing act 1) for a time period of from approximately four seconds to approximately twenty seconds.

27. (New) The method of claim 23, wherein the system is a High Performance Radio Local Area Network.

28. (New) The method of claim 23, wherein the system is an IEEE 802.11a/h system.

29. (New) A computer program product comprising program code executable by a processor for performing the steps of :

- a) assessing plural frequencies in a wireless communication system with respect to a radar interference signal;
- b) allocating a quality parameter to each assessed frequency, the quality parameter indicating a probability that the frequency is occupied by the radar interference signal;
- c) selecting one or more of the plural frequencies in dependence on the allocated quality parameters; and
- d) further assessing the one or more of the plural frequencies selected in act c) with respect to transmission quality and selecting a frequency for use by the system.

30. (New) A wireless communication system comprising:

- a) a first unit configured to assess plural frequencies with respect to a radar interference signal;
- b) a second unit configured to allocate a quality parameter to each assessed frequency, the quality parameter indicating a probability that the frequency is occupied by the radar interference signal;
- c) a third unit configured to select one or more of the plural frequencies in dependence on the allocated quality parameters; and
- d) a fourth unit configured to assess further the one or more of the plural frequencies selected by the third unit with respect to transmission quality and to select a frequency for use by the system.